Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-03-11** **Date: 06-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/17/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-11 /01
Sample Type	:	ACC53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-03-11** **Date: 02-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/17/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-11 /01
Sample Type	:	ACC53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm2	Not less than 53 N/mm^2

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-03-11** **Date: 06-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/17/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-11 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-03-11** **Date: 06-09-18**

Sample ID No : 2018-09-03-11 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.8**	
3	Specific Gravity	**2.68**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.52**	_
6	Water Absorption(%)	**0.22**	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-03-11** **Date: 05-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer Reference	:	BBMP/EE/BTP/WO/17/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-11 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-03-11** **Date: 05-09-18**

Sample ID No : 2018-09-03-11 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-03-11** **Date: 05-09-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-18

Sample ID No : 2018-09-03-11 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-09-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	201	407	40.7	59.3	30-70	55-90	75-100	90-100
5	600 micron	168	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	229	804	80.4	19.6	5-20	8-30	12-40	15-50
7	150 micron	153	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-03-11**

Date: 05-09-18

Sample ID No : 2018-09-03-11 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-09-03-11** **Date: 08-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/17/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-11 /05
Sample Type /Size	:	150mm thick Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	04/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.48	150.02	2.155	7928	151.2	19.1	17.7	22.2
2	Cover Slab-2	100.41	150.03	2.098	7917	149.9	18.9	17.6	22.0
3	Cover Slab-3	100.45	150.02	2.125	7923	153.5	19.4	18.0	22.5

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-09-03-11** **Date: 05-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/17/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-11 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	04-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	528	641	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.611	539	658	20.5%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.885	552	672	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07** **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	14/09/2018	150.05 X 149.87 X 151.30	22488	8.198	407.8	18.1	18.5
2	M20 Concrete	M20	07/09/2018	14/09/2018	149.20 X 149.67 X 151.07	22332	8.317	415.8	18.6	
3	M20 Concrete	M20	07/09/2018	14/09/2018	151.93 X 150.18 X 149.94	22818	8.255	427.4	18.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07** **Date: 05/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	05/10/2018	149.26 X 149.25 X 149.39	22278	8.070	517.2	23.2	22.9
2	M20 Concrete	M20	07/09/2018	05/10/2018	150.29 X 149.88 X 151.31	22525	8.397	498.4	22.1	
3	M20 Concrete	M20	07/09/2018	05/10/2018	151.42 X 150.84 X 149.33	22839	8.554	536.5	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07** **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /03

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	14/09/2018	150.72 X 150.97 X 150.78	22753	8.104	411.6	18.1	18.3
2	M20 Concrete	M20	07/09/2018	14/09/2018	151.93 X 151.09 X 151.39	22956	8.487	416.5	18.1	
3	M20 Concrete	M20	07/09/2018	14/09/2018	150.30 X 149.12 X 150.21	22413	8.124	418.3	18.7	

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ
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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07** **Date: 05/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /04

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	05/10/2018	150.80 X 151.86 X 149.23	22901	8.280	544.8	23.8	23.3
2	M20 Concrete	M20	07/09/2018	05/10/2018	150.01 X 151.14 X 149.07	22673	8.098	501.5	22.1	
3	M20 Concrete	M20	07/09/2018	05/10/2018	150.03 X 149.12 X 149.10	22372	8.290	535.8	23.9	

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07** **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /05

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	14/09/2018	149.50 X 149.22 X 150.41	22310	8.562	416.7	18.7	18.6
2	M20 Concrete	M20	07/09/2018	14/09/2018	151.95 X 151.97 X 151.14	23093	8.153	416.6	18.0	
3	M20 Concrete	M20	07/09/2018	14/09/2018	149.04 X 149.94 X 150.76	22348	8.263	423.2	18.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07** **Date: 05/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /06

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	05/10/2018	149.61 X 151.27 X 149.29	22632	8.291	541.3	23.9	23.2
2	M20 Concrete	M20	07/09/2018	05/10/2018	149.68 X 151.52 X 150.08	22679	8.384	506.7	22.3	
3	M20 Concrete	M20	07/09/2018	05/10/2018	151.58 X 151.18 X 150.04	22916	8.004	532.9	23.3	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07** **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /07

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	14/09/2018	149.30 X 151.49 X 150.91	22618	7.960	413.9	18.3	18.3
2	M20 Concrete	M20	07/09/2018	14/09/2018	149.87 X 150.64 X 149.01	22577	8.253	410.9	18.2	
3	M20 Concrete	M20	07/09/2018	14/09/2018	151.97 X 151.16 X 150.48	22971	8.335	422.7	18.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07** **Date: 05/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /08

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	05/10/2018	149.70 X 149.60 X 149.81	22396	8.349	508.4	22.7	23.2
2	M20 Concrete	M20	07/09/2018	05/10/2018	149.55 X 149.67 X 150.98	22382	8.285	526.0	23.5	
3	M20 Concrete	M20	07/09/2018	05/10/2018	151.62 X 150.86 X 149.90	22874	8.507	535.2	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07** **Date: 15/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /09

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/09/2018	15/09/2018	149.50 X 149.22 X 150.41	22310	8.562	410.5	18.4	18.6
2	M20 Concrete	M20	08/09/2018	15/09/2018	151.95 X 151.97 X 151.14	23093	8.153	427.2	18.5	
3	M20 Concrete	M20	08/09/2018	15/09/2018	149.04 X 149.94 X 150.76	22348	8.263	422.4	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07**

Date: 06/10/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /10

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/09/2018	06/10/2018	149.61 X 151.27 X 149.29	22632	8.291	511.5	22.6	22.9
2	M20 Concrete	M20	08/09/2018	06/10/2018	149.68 X 151.52 X 150.08	22679	8.384	514.8	22.7	
3	M20 Concrete	M20	08/09/2018	06/10/2018	151.58 X 151.18 X 150.04	22916	8.004	536.2	23.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07** **Date: 15/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /11

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/09/2018	15/09/2018	151.41 X 149.31 X 151.37	22607	8.419	402.4	17.8	17.6
2	M20 Concrete	M20	08/09/2018	15/09/2018	151.55 X 151.35 X 150.57	22936	7.949	399.1	17.4	
3	M20 Concrete	M20	08/09/2018	15/09/2018	151.08 X 149.92 X 149.48	22650	8.261	398.6	17.6	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-07** **Date: 06/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Cross Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/17/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-07 /12

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/09/2018	06/10/2018	150.50 X 150.04 X 151.97	22581	8.519	514.8	22.8	22.8
2	M20 Concrete	M20	08/09/2018	06/10/2018	150.66 X 151.34 X 150.46	22801	8.422	526.7	23.1	
3	M20 Concrete	M20	08/09/2018	06/10/2018	150.87 X 149.76 X 149.08	22594	8.268	508.4	22.5	

Note:

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